

Appendix 1. Sustainability Indicator Data Sources and Contacts, 1999-2000
GEM Center for Science and Environmental Outreach, Michigan Technological University

NOTE: This list of information sources was compiled as part of a project for the Developing Sustainability Committee of the Lake Superior Binational Program. It is **not** a complete list of available data. Some measures list few or no data sources because of project time constraints. Some are nontraditional measures for which data may not yet be available.

Reinvestment of Natural Capital			
<i>Measure</i>	<i>Data Source</i>	<i>Format</i>	<i>Geographic Coverage</i>
Sustainable forestry	SmartWood Lake States Program, Northland College, Ashland, WI 54806-3999, 715-682-1393	Printout: "List of Certified Operations in the Lake States, July 2000," forest management and chain-of-custody	Michigan, Minnesota, Wisconsin, Ontario: 3 forests and 2 forest products companies in Basin (plus two near Basin)
"	SmartWood http://208.33.35.221/smartwood	Printouts on SmartWood certified forests and forest products chain-of-custody, including the SmartWood Rediscovered Wood Program for salvaged, reused, reclaimed, and recycled wood (not formally endorsed by the Forest Stewardship Council)	Locations within Basin. Forests: Big Creek Forestry and Keweenaw Land Association in MI and Minnesota Department of Natural Resources-Forestry. Chain-of-custody: Horner Flooring and Northern Hardwoods (Rossi American Hardwoods) in MI, North Country Lumber in WI
"	Forest Stewardship Council www.fscus.org	Printout about FSC certifiers (SmartWood, Scientific Certification Systems, etc.), Principles and Criteria for Forest Management	5 forests listed in MI-MN-WI region, w/ acreage, location, species, certificate number
"	Certified Forest Products Council www.certifiedwood.org	Printouts: mission, services, descriptions of certifiers, regional standards; list of business members by state and their products (value-added)	Michigan, Minnesota, Wisconsin, Ontario (some members and certified suppliers within Basin or county partly in Basin)
"	Sustainable Forestry Initiative www.michiganforestry.com	Printout	
"	American Forest & Paper Assn. www.afandpa.org	Printout	
"	Sustainable Forestry Initiative Independent Expert Review Panel www.sampsongroup.com/sfi-page	Printouts on 1997 review of SFI and recommendations	
"	Canadian Sustainable Forestry Certification Coalition www.sfms.com	Printout on certification status in Canada and CSA (Canada's National Sustainable Forest Management System Standard CAN/CSA Z809-96)	No certified companies in Ontario listed except one in SE (standards include CSA, ISO 14001, Forest Stewardship Council, and AF&PA Sustainable Forestry Initiative).
"	Canadian Standards Association International www.csa-international.org	Printout mentioning development of standards in forest products under "construction" and sustainable forestry under "environment"	Canada
"	Natural Resources Canada www.NRCan.gc.ca:80/dmo/susdev	Printout on Forests and Sustainable Development, Canadian Model Forest Program, NRC's Canadian Forest Service research networks on sustainable development, forest science and technology	Canada. Online publications include <i>The State of Canada's Forests 1997-1998</i> and <i>Model Forest Network - Year in Review 1994-1995</i> . Also <i>Defining Sustainable Forest Management - A Canadian Approach to Criteria and Indicators</i>
"	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR/forests	Printouts on Policy Framework for Sustainable Forests, Lands for Life, Ontario's Living Legacy, (Web site lists expansion of parks and protected areas, some in basin). Private forest lands. Managed Forest Tax Incentive Program	Ontario. Private Land Resource Stewardship Program map shows all program areas in SE Ontario. 705-945-5853 Forest Program Development Section, Forest Management Branch. Ontforests@webmail.mnr.gov.on.ca .
"	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR/forests	Printouts on Forest Management Practices and the Forest Management Competency Program for MNR and forest industry personnel	Ontario. Ministry of Natural Resources, Forest Evaluations and Standards Section, Forest Management Branch, 70 Foster Dr., Suite 400, Sault Ste. Marie, ON P6A 6A9 705-945-701.
"	Great Lakes Forestry Alliance http://www.lsfa.org	Printout on Alliance goals and publications, including <i>Sustainable Forest Management Criteria and Indicators</i>	Michigan, Minnesota, Ontario, Wisconsin

Sustainable forestry (cont.)	Ontario Ministry of Natural Resources Centre for Northern Forest Ecosystem Research WWW.CNFER.ON.CA	Printout on Centre based at Lakehead University in Thunder Bay, which studies effects of forestry practices on boreal aquatic and terrestrial ecosystems	Ontario. Mentions timber management guidelines for protection of fish habitat, moose habitat, and tourism values
"	Boreal Science www.borealscience.on.ca	Printout of links on forest science and management; landscape ecology, conservation, biodiversity; sustainable development, etc.	
"	Ontario Forest Industries Association www.ofia.com	Printouts: sustainable forestry, code of forest practices, statement of environmental policy, Ontario's Living Legacy	Ontario, list of member companies, government agencies, and non-government organizations
"	Bowater, Inc. www.bowater.com	Printout on timberlands, newsprint/pulp mill in Thunder Bay, and environmental commitment	Thunder Bay, Ontario (mill is first newsprint facility in North America to be ISO 14001 certified)
"	Abitibi-Consolidated, Inc. & Donohue www.abicon.com & www.donohue.ca	Printout of Ft. William paper mill and forest holdings (including map). Donohue woodlands printout (none in watershed)	Fort William-Thunder Bay, Ontario (mill); some forest holdings in watershed north of Thunder Bay.
"	Keweenaw Land Association, Ltd. www.keweenaw.com	Printout on SmartWood "well managed" certification and "Green Certified" logo	Ironwood, MI-based w/155,000 acres of woodlands. <u>Log sales only, no milling.</u>
"	Horner Flooring Company www.hornerflooring.com	Printout on the company (chain-of-custody certification from SmartWood).	Dollar Bay, MI, mill. No forests under Horner management. CFPC certified.
"	Provincial Papers, Inc. subsidiary of Rolland, Inc. www.rolland.ca	Printout on Thunder Bay mill (coated freesheet and coated groundwood papers, some recycled). No forest mgmt info.	Thunder Bay, ON.
"	Fort James www.fortjames.com	Printout on environmental policies and activities	No mention of Fort James Marathon mill? No longer operating or under other ownership? No others in watershed.
"	Domtar (includes Norampac and E.B. Eddy) www.domtar.com	Printout on hardwood band and veneer mills in Sault Ste. Marie. Also Norampac corrugated container plants in Ontario. List of stewardship awards	Sault Ste. Marie, ON, mills plus 12 million acres of Northern Ontario forest under sustainable forest license (mix of private, Crown, company-owned lands)
"	Rossi American Hardwoods, Northern Hardwoods Division www.rossiamericanhardwoods.com	Printout on Northern Hardwoods sawmill	South Range, MI
"	International Paper www.internationalpaper.com	Printout on environmental certification of IP forests through the Sustainable Forestry Initiative and ISO 14001	Michigan
"	Potlatch Corporation www.potlatchcorp.com	Printouts on Minnesota timberlands, Sustainable Forestry Initiative, forestry management philosophy, environmental performance improvements, and environmental education	Minnesota
"	Timber Holdings Limited Iron Woods www.ironwoods.com	Printouts on Iron Woods decay-resistant woods, Timber Holdings Limited's chain-of-custody certification from SmartWood, and Fields to Forests Certification for reforestation	Available through Connor Sports Flooring (see below)
"	Connor Sports Flooring Corporation www.connorfloor.com	Printout on O'Connor, the first Maple Flooring Manufacturers Association mill to be SmartWood certified	Amasa (Iron County), Michigan, outside Basin but wood source probably includes Basin
"	Ontario Forestry Association www.oforest.on.ca	Printout on administration of Managed Forest Tax Incentive Program, Ontario Envirothon, Focus on Forests (K-12), and Project Tree Cover	Ontario

Sustainable forestry (cont.)	Community Forestry Resource Center, Institute for Agriculture and Trade Policy www.iatp.org/forestry	Printout on organization of sustainable forestry cooperatives and associations of private forest owners.	Focus on NAFTA impact on forestry. Coordinating development of "Lake States Guidelines" for Forest Stewardship Council certification. iatp@iatp.org, 612-870-3407
"	Minnesota Interagency Information Cooperative www.iic.state.mn.us	Printout on forest information sources in Minnesota (Minnesota Forest Resources Council, MN Assn. Of County Land Commissioners, MN DNR, MN Land Management Information Center, University of MN, and U.S. Forest Service	Minnesota (land cover, rare plants and animals, general wildlife and plants, natural physical data, strategic plans, ecosystem overview, archaeological and historic, land use, land ownership and political, roads and trails, forest models, Forest Resources Council landscapes, common forest inventory GIS data)
Watershed mgmt./restoration	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-163 to 6-228.	List and descriptions of watershed management or restoration programs	Lake Superior Basin, approximately 36 examples that fit this category
"	Lake Superior LaMP 2000, Chapter 7, Terrestrial Wildlife, pp. 7-54 to 7-59.	List of strategies/projects for watershed management or restoration	Lake Superior Basin
"	Michigan Dept. of Natural Resources www.dnr.state.mi.us	Printout about DNR Natural Rivers program (general information about the program, not about individual designated rivers)	6 Michigan rivers that drain to Lake Superior are designated Michigan Natural Rivers (Presque Isle, Ontonagon, Black, Sturgeon, Yellow Dog, Tahquamenon) and one (Two Hearted) is a Federal Wild and Scenic River.
"	"	Printout (table of contents) of <i>Phase II Final Report: Assessing Changes in Private Property Values Along Designated Natural Rivers in Michigan</i>	By county in Michigan
"	Michigan Dept. of Environmental Quality Land and Water Management Division www.deq.state.mi.us	Printout on <i>Preserving Michigan's Wetlands: Options for Local Governments</i> (produced by Tip of the Mitt Watershed Council)	Sections on wetland functions and values, local wetland protection ordinances, floodplain management, performance-based zoning, voluntary protection options, etc.
"	Great Lakes Binational Toxics Strategy (Environment Canada/U.S. EPA)	Printout on the <i>Canada-United States Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes and Binational Toxics Strategy Activity Time Line</i> .	Lake Superior Basin
"	Environment Canada, Ontario Region. Tom Muir, Senior Economist 905-336-4951; tom.muir@ec.gc; www.cciw.ca/ green-lane/env-econ/intro.html	Flyer, <i>Nipigon Bay Watershed. Environmental Restoration: Investing in Our Community's Future</i>	Ontario, Nipigon Bay
"	Environment Canada (contact: Tom Muir, as above)	Brochure, <i>Restoring Great Lakes Watersheds: Adding Up the Economic Benefits</i> (revised 1998)	Great Lakes (Canada). Includes tables on investment in watershed restoration and impacts of potential development activity for Nipigon Bay and Thunder Bay AOCs
"	Terrene Institute and U.S. EPA Clean Lakes Program www.terrene.org	Printout on Watershed Information Resource System (WIRS) database (replaced by nonpoint source projects database as of 6/22/00)	Site claims 5,000+ abstracts of watershed-related documents, but search turns up documents by file number with no name or location. Check later?
"	Chocolay River Watershed Project, Carl Lindquist, Marquette Co. Soil and Water Conservation District, 906-226-9460, lindq@mail.portup.com, www.portup.com/~lindq	EPA Adopt Your Watershed list for Betsy-Chocolay watershed (see U.S. EPA below)	
"	Michigan Technological University Watershed Improvement Center www.cee.mtu.edu/projects	Printout of Web pages on Otter River Restoration Project	Houghton-Baraga Counties, Michigan

Watershed mgmt./restoration (cont.)	U.S. EPA, Adopt Your Watershed http://yosemite.epa.gov/water	Printout of Adopt Your Watershed organizations by HUC8-digit USGS watershed, with contact information.	Lake Superior watersheds in MI-MN-WI (27 organizations listed; 2 from Lac Vieux Desert appear to be outside basin).
"	Ontario Ministry of Environment and Energy, et al.	Printout of <i>An Evaluation of Watershed Management in Ontario. Final Report 1997.</i> Watershed Planning Implementation Project Management Committee	Ontario. Inventory of watershed projects in Ontario, including two in the Thunder Bay region: Lakehead Region Watershed Strategy (initiated 1/91, completed) and Mosquito Creek Watershed Project (initiated 1/94, completed)
"	National Wildlife Federation http://nwf.org/nwf/watersheds/stlouis	Printout of "Saving Our Watersheds" St. Louis River Case Study	St. Louis River watershed, Minnesota. Description of NWF's St. Louis River Watershed Project, including contacts
"	U.S. EPA	Printout of "Watershed-Based Needs Accounting" section of <i>1996 Clean Water Needs Survey Report to Congress</i>	General. Discusses case studies that show benefits of using the watershed as a water quality planning unit
Fish/wildlife stocking	Lake Superior LaMP 2000, Chapter 8, The Aquatic Community Part 1: Fish and Their Habitat, pp. 8-22, 8-31 to 8-32	Printout of contents and summary. Action plans for monitoring, identification of critical habitat, lake sturgeon abundance and spawning studies, GIS mapping of critical habitat	Lake Superior Basin
"	Lake Superior LaMP 2000, Chapter 7, Terrestrial Wildlife, pp. 7-70 to 7-76	Section on strategies: reintroduction programs for terrestrial wildlife, including bird species	Lake Superior Basin
"	Michigan Sea Grant www.engin.umich.edu/seagrant		
"	Minnesota Sea Grant www.d.umn.edu/seagr		
"	Wisconsin Sea Grant www.seagrant.wisc.edu		
"	Great Lakes Indian Fish & Wildlife Commission www.glifwc.org		
"	U.S. Fish & Wildlife Service www.fws.gov		
"	Natural Resources Canada www.nrcan.gc.ca		
"	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR		
"	Keweenaw Bay Indian Community 906-353-6623, 107 Beartown Road, Baraga, MI 49908		
Exotic species control/ native plant repatriation	Invasive Plants of Canada Project (Parks Canada, Environment Canada, Natural Resources Canada). http://infoweb.magi.com/~ehaber/ipcan.html	Report from Pukaskwa National Park (common roadside weeds present but, owing to remote location, no major problems)	Ontario (national parks, national wildlife areas, and migratory bird sanctuaries). Only problems mentioned in eastern and southern Ontario.
"	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-150 to 6-153	Section on exotic species and control projects for purple loosestrife, Eurasian water milfoil, other plants, gypsy moth, zebra mussels, rusty crayfish	Lake Superior Basin
"	Lake Superior LaMP 2000, Chapter 7, Terrestrial Wildlife, pp. 7-65 to 7-66, 7-71 to 7-76.	Section on exotic/invasive plant control and native plant revegetation projects	Lake Superior Basin
"	Lake Superior LaMP 2000, Chapter 10, Aquatic Nuisance Species.		Lake Superior Basin

Exotic species control/ native plant repatriation (cont.)	Upper Midwest Environmental Sciences Center, Biological Resources Division, U.S. Geological Survey www.umesc.usgs.gov/		Focus to date on exotics in Upper Mississippi River system.
"	U.S. Forest Service Great Lakes Ecological Assessment http://econ.usfs.msu.edu/gla/data.htm		Contacts: John Wright, USFS, Rhinelander, 715-362- 1163 (physical/biological data); Sharon Hobria, USFS, E. Lansing, 517-355-7740 (social/economic data)
"	Great Lakes Information Network, Great Lakes Commission www.great-lakes.net/envt/exotic	Printout of exotic species in the Great Lakes region: crustaceans, fish, mollusks, plants. Numerous links to other exotic species sites.	Great Lakes region
"	Minnesota Sea Grant www.d.umn.edu/seagr	Three-State Exotic Species Boater Survey	MN-WI-OH (how to reach boaters and change behaviors)
"	Michigan Association of Conservation Districts	<i>Go Wild! Native Wildflowers of Michigan's Upper Peninsula</i> Poster. Series of five brochures: <i>Your Landscape and Our Natural Areas, Michigan's Northern Lower and Upper Peninsulas; Native Shrubs of Michigan's Upper Peninsula; Native Wildflowers of Michigan's Upper Peninsula; Native Vines, Grasses, Rushes, Sedges, and Ferns of Michigan's Upper Peninsula; Native Trees of Michigan's Upper Peninsula.</i>	Michigan "Go Native" project, funded by U.S. EPA Great Lakes National Program Office
"	Conservation districts (see also watershed mgmt/restoration)		
Mining/industrial reclamation	Ontario Ministry of Northern Development and Mines, Mines and Minerals Division www.gov.on.ca/MNDM/MINES	Printout of mineral development and mine rehabilitation page.	Ontario
"	Minnesota Pollution Control Agency www.pca.state.mn.us/cleanup	Printout on cleanup programs; leachate management and methane recovery at open and closed landfills; brownfields; storage tanks	Minnesota. No specifics for Lake Superior Basin
"	"	Printouts on Leaking Underground Storage Tank information, including lists of sites by county	Carlton, Cook, Lake, and St. Louis Counties, Minnesota
"	Environment Canada	Nipigon Bay RAP brochure	Ontario. Nipigon Bay, Red Rock Township
"	Environment Canada www.cciw.ca/glimr/raps	Printout on forty-three Areas of Concern, Canada and U.S. (7 in Lake Superior Basin)	Ontario: Thunder Bay, Nipigon Bay, Jackfish Bay, Peninsula Harbour. U.S.: St. Louis Bay/River, Torch Lake, Deer Lake. Descriptions and contacts.
"	"	Printout on Thunder Bay RAP, cleanup and restoration activities and costs/benefits	Ontario. Thunder Bay
"	St. Louis River Citizens Action Committee www.StLouisRiver.org	Printout on the <i>St. Louis River System Remedial Action Plan Stage One - April 1992</i>	St. Louis River watershed, Minnesota and Wisconsin.
"	U.S. Environmental Protection Agency, Great Lakes National Program Office www.epa.gov/glnpo/aoc	Printout on St. Louis River Area of Concern and Remedial Action Plan	St. Louis River watershed, Minnesota and Wisconsin.
"	"	Printout on Torch Lake Area of Concern	Upper Peninsula of Michigan (Houghton County)
"	"	Printout on Deer Lake Area of Concern	Upper Peninsula of Michigan (Marquette County)
"	Great Lakes Information Network, Great Lakes Commission www.glc.org/robin	Printout on ROBIN: Regional Online Brownfields Information Network	
"	U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response www.epa.gov/swerosps/bf	Printout of links to Brownfields Assessment Demonstration Pilots and 1997 fact sheets on the three in Lake Superior Basin	Chippewa County/Kinross Township in Michigan; Virginia, Minnesota; and Northwest Regional Planning Commission in Wisconsin

Mining/industrial reclamation (cont.)	Ontario Ministry of the Environment www.ene.gov.on.ca/environ/techdocs	Partial printout of <i>Studies of the Terrestrial Environment in the Wawa Area, 1998-1999</i>	Wawa, Ontario. Impact of Algoma Ore Division sintering plant on surrounding environment (iron, arsenic, manganese and SO ₂ toxicity)
Wetland/biotic diversity replacement	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-64 to 6-70.	Section on wetlands—types, locations, threats to wetland habitats	Lake Superior Basin

Quality of Human Life			
<i>Measure</i>	<i>Data Source</i>	<i>Format</i>	<i>Geographic Coverage</i>
Incidence of crime	USA Counties 1998 CD-ROM, U.S. Bureau of the Census	ArcView (from downloaded spreadsheet linked to TIGER counties shapefile). Yearly serious crimes per 100,000 population, 1977-95; also by specific type of crime.	16 MI, MN, WI counties mostly within Lake Superior Basin
“	Ontario Bureau of Justice, Ministry of the Attorney General	Data is available by census subdivisions for 32 crime categories (similar to US Counties 1998 data)	Clem Hill, 416-326-2113. Dorothy Gonzales-Singh referred us to Centre for Justice Statistics as better source.
“	Canadian Centre for Justice Statistics, Statistics Canada, 613-951-6750	Excel spreadsheets on violent, property, and drug crimes (and other categories) per 100,000 for 9 police forces (Ontario Provincial Police and municipal forces)	Ontario. Shelley.crego@msxa1.statcan.ca compiled data for 22 of 36 census subdivisions in Basin. (others not available in project time frame)
Demographics of migration, extended families	US Census TIGER 1990 demographics	ArcView (at same house 1985; in same county 1985)	540 US census block groups in Lake Superior Basin—MI, MN, WI
“	Statistics Canada 1996 census	ArcView (from Beyond 20/20; mobility status 1 year ago and 5 years ago, 20% sample data)	31 Canadian census subdivisions in Lake Superior Basin—ON
“	USA Counties 1998 CD (households 1970, 1980, 1990; family and non-family households 1980, 1990; family households w/married couples 1970, 1980, 1990; households w/persons 65 years + 1980, 1990; households w/persons < 18 1980, 1990; persons/household	ArcView (from downloaded spreadsheet linked to TIGER counties shapefile)	16 MI, MN, WI counties mostly within Lake Superior Basin
Demands for social services	USA Counties 1998 (US Census)	CD ROM (Social Security, retirement, AFDC, disability, supplemental security benefits and recipients for some years, 1970-1996)	16 counties mostly in Lake Superior watershed
“	US Census TIGER 1990 demographics	ArcView (in homeless shelters, on the street)	540 US census block groups in Lake Superior basin—MI, MN, WI
“	US Census 1990 Census Lookup venus.census.gov/cdrom/lookup	Printout of data on persons with social security, public assistance, and retirement income, plus aggregate income	Michigan county subdivisions or census tracts (two examples printed)
“	Michigan State Housing Development Authority www.mshda.org/programs	Links to low-income housing programs.	Michigan. Printout of program statistics for Marquette County (only Basin county for which data is available)
“	Michigan Family Independence Agency www.mfia.state.mi.us	Printout describing financial assistance and child and family services programs. Also statistics (Sept. 1999) by county	Michigan. Statistics on FIP, food stamps, medical assistance, and child day care cases for all Basin counties
“	Wisconsin Dept. of Health & Family Services www.dhfs.state.wi.us	Printout of links to information on Community Health Profiles, 1998 family health survey on insured/uninsured, Pathways to Independence for persons with disabilities, Wisconsin Partnership Program of integrated health and long-term care for elderly/disabled	Wisconsin; printout of public health profile for Ashland County as example of the data available (more appropriate to the human health committee's work). Does have number and per 10,000 of WIC participants and local public health funding

Demands for social services (cont.)	Minnesota Housing Finance Agency www.mhfa.state.mn.us/pages	Printout of links to the <i>Minnesota Consolidated Housing and Community Development Plan 2000 DRAFT</i>	Minnesota. Includes strategy for implementing HUD programs, action plan for homeless and other special needs activities. Minnesota Consolidated Plan does not cover Duluth or Cook, Lake, and St. Louis Counties, which have their own consolidated plans.
"	Minnesota Dept. of Human Services www.dhs.state.mn.us/childint/ssis	Printout on Social Services Information System (Statewide Automated Child Welfare Information System) for foster care, out-of-home placement, children's mental health, and adoption	Minnesota. County case management system for social workers
"	Minnesota Dept. of Human Services www.dhs.state.mn.us/infocenter	Printout on InfoCenter programs and contacts for health care, economic assistance, and social services, plus links to regional treatment cenrs, state-run group homes, and state nursing homes	Statewide, but link to county or regional human services offices
Transportation and communication infrastructure status	US Bureau of Transportation Statistics www.bts.gov/ntda/nts/NTS99/data	Printout of Table 1-42. "Tonnage of Top 50 U.S. Water Ports, Ranked by Total Tons"	Duluth-Superior, Minnesota-Wisconsin and Two Harbors, Minnesota ranked #18 and #42 among US ports in 1997 tonnage
"	Michigan Dept. of Transportation Bureau of Transportation Planning www.mdot.state.mi.us/planning	Printout (contents and examples) of facts and figures for aviation, highways, marine, public transit, and railroads. Copies of <i>Michigan Transportation Facts & Figures</i> (February and December 1999) and <i>5 Year Road & Bridge Program 1999 to 2003 and 2000 to 2004</i>	Michigan, by county and by Superior Region, including the Lake Superior Basin counties
"	"	Printout of <i>Michigan Airport System Plan Report, MASP 2000</i> , January 2000	Michigan. Highlighted information relevant to Lake Superior Basin counties
"	Michigan Dept. of Transportation www.mdot.state.mi.us/uptran	Printout of nonurbanized public transit agencies in Michigan	Michigan. 7 public transit agencies operating in the Lake Superior Basin counties
"	Michigan Dept. of Transportation Superior Region (Jack Bedard, Escanaba, 906-786-1800) and www.mdot.state.mi.us/maps/trafficmaps (David Schade, schaded@state.mi.us)	Copies of Michigan Annual Daily Traffic and Commercial Annual Daily Traffic Maps (1987, 1988, 1990, 1991, 1992, 1995, 1996, 1998)	Michigan statewide. Dave Schade provided additional Upper Peninsula traffic volume data in an 8/18/2000 e-mail message.
"	Michigan Dept. of Transportation Angie Payne (Rideshare Coordinator) and Amy Lindstrom (Carpool Parking Lot Program)	Printouts of e-mail messages and attachments on carpool parking lot use and user surveys and on rideshare programs.	Michigan. Superior Region (Upper Peninsula)
"	Public Sector Consultants (for County Road Association of Michigan, 517-482-1189, and Michigan Municipal League)	Copy of <i>Michigan Roads, Streets, and Bridges: Ten-Year Investment Requirements</i> . March 2000.	Michigan. No breakdown for Superior Region or Lake Superior Basin counties
"	Minnesota Dept. of Trade and Economic Development, Office of Freight, Railroads and Waterways 1-800-657-3858 www.dted.state.mn.us	Printout of part of <i>Compare Minnesota</i> report on transportation and telecommunications infrastructure.	
"	Arrowhead Regional Development Commission, www.ardc.org	Printouts on highway plans and Northeast Minnesota Freight Study	Northeastern Minnesota, including Lake Superior Basin
"	Wisconsin Public Service Commission www.psc.state.wi.us .	List of contacts for communications industry information	Wisconsin
"	Wisconsin Dept. of Transportation Bureau of Planning www.dot.state.wi.us	Printouts of contact information for traffic counts, environmental impacts, environmental justice, environmental policies, erosion and stormwater; "Translinks 21: A Multimodal Transportation Plan for Wisconsin's 21 st Century"; and "Wisconsin's Rustic Roads"	Wisconsin

Transportation and communication infrastructure status (cont.)	“	Printout of <i>Wisconsin Bicycle Transportation Plan Summary</i> , September 1998, and Wisconsin Bicycle Transportation Plan 2020, December 1998	
“	Ontario Ministry of Northern Development and Mines, Northern Transportation Program, www.gov.on.ca/MNDM/nordev	Printout on Ontario's Northern Transportation Program includes northwestern and northeastern Ontario projects	Ontario. Lake Superior Basin
Recreational/cultural opportunities	Minnesota Dept. of Natural Resources www.dnr.state.mn.us/ trails_and_waterways	Printout on <i>Boating in North Central Minnesota: Status in 1998 and Trends Since 1985</i>	Minnesota (but north central, not Lake Superior Basin). Check to see if northeastern Minnesota has been or is being done.
“	Minnesota Dept. of Natural Resources www.dnr.state.mn.us	Printout of 1999 Water Surface Use Summary. Lists use restrictions on water bodies.	Cook, Lake, St. Louis Counties, Minnesota (mostly outside Lake Superior Basin, however)
“	Minnesota Dept. of Natural Resources www.dnr.state.mn.us	Printout of public water access programs and contacts	Minnesota statewide
“	North Country Trail Association	Brochure on the North Country National Scenic Trail	Part of the trail is in the Lake Superior Basin in Michigan, Minnesota, and Wisconsin
Citizen involvement in decision making (see also Environmental Advocacy Groups under the last section)	Minnesota Planning, Environmental Quality Board, Sustainable Development www.mnplan.state.mn.us/SDI	Printout on Environmental Quality Board, its membership of 5 citizens and heads of 10 state agencies involved in environment and development. Sustainable development programs include the Governor's Round Table on Sustainable Development, with 30 business, environmental, and community members.	Minnesota statewide. EQB: 651-296-3985, sustainable development: 651-297-1257
“	Minnesota Dept. of Natural Resources and University of Minnesota Sea Grant	Printout of table of contents and first part of <i>Public Perceptions of the Impacts, Use, and Future of Minnesota Lakes: Results of the 1998 Minnesota Lake Survey</i>	Northeast region's lakes had lowest percentage (14%) of primary use among the state's 5 regions according to survey (21-26% in central, metro, south and 16% in northeast)
“	West Skyline Planning and Preservation Alliance (WSPPA), Duluth, Minnesota www.cp.duluth.mn.us/~tnbrown/wsppa	Printout of WSPPA action plan for the Spirit Mtn. Recreation Area and public meeting announcement for comment on a Duluth golf course and hotel environmental assessment.	Duluth, Minnesota. [many similar public meetings on environmental issues throughout Basin, but difficult to quantify]
“	Need to contact County clerks, Secretary of State offices	Percentage of registered voters who vote; percentage of population 18+ registered to vote; number of referendums placed on ballots locally	Not contacted yet
Public access to lake shores	Minnesota Dept. of Natural Resources www.dnr.state.mn.us/ trails_and_waterways	Printout on Public Water Access Program, including public water access maps and development of safe harbors and protected accesses along Lake Superior	1500 trailer and carry-in boat access sites in Minnesota. Specific mention of Silver Bay Safe Harbor and Marina and the Lake Superior Water Trail Map for sea kayakers
Population density	US Census TIGER 1990 demographics www.esri.com	ArcView (calculated from fields persons/land-km)	540 US census block groups in Lake Superior Basin (Michigan, Minnesota, Wisconsin)
“	Statistics Canada, 1991 census enumeration areas, 1986 and 1996 census subdivisions	ArcView (from Beyond 20/20 software files brought into Excel spreadsheet, saved as dbf)	31 Ontario census subdivisions and 354 enumeration areas in Lake Superior Basin
“	Michigan Dept. of Management and Budget www.state.mi.us/dmb/mic/census/demo.htm	Printout of county census population in 1970, 1980, 1985 (estimated), 1990 and projections for every five years from 1995 through 2020	8 Michigan counties in Lake Superior Basin

Resource Consumption			
<i>Measure</i>	<i>Data Source</i>	<i>Format</i>	<i>Geographic Coverage</i>
Recycling programs (See also landfill and incineration capacity below for solid waste plans.)	Eastern U.P. County Solid Waste Planning Committee and Eastern U.P. Regional Planning Commission. John Campbell 906-635-1581	Table of 1989-1999 recycling data from the Chippewa County Recycling Center, operated by Northern Transitions. Supplemented by call to Center Director Cal Lofdahl, 906-632-0525	Chippewa County, Michigan
"	Michigan Dept. of Environmental Quality Environmental Assistance Division www.deq.state.mi.us/ead/recycle	Printout of "Michigan Household Hazardous Waste Collection Programs" by county	Of Michigan Lake Superior Basin counties, only Marquette and Chippewa have contacts
"	"	Printout of "Michigan Recycled Materials Market Directory" (search by county, company, material)	List of recyclers, brokers, salvage companies in Michigan Lake Superior Basin counties
"	"	Printout of recycling organizations and links to additional information by material to be recycled	Great Lakes region
"	Michigan Dept. of Agriculture www.mda.state.mi.us/environm/groundwater/cleansweep/index.html Rick Aho, Marquette County Clean Sweep contact: 906-249-4108	List of pesticide and mercury Clean Sweep collection programs open to all Michigan residents and businesses	The Marquette County Solid Waste Authority has the only collection program located in a Michigan Lake Superior Basin county. The Delta Solid Waste Management Authority in Escanaba also serves U.P. counties.
"	Minnesota Office of Environmental Assistance www.moea.state.mn.us/berc	Printout of "Minnesota Recycling Directory Search Results" for MRF recycling facilities	northeast region of Minnesota
"	Minnesota Office of Environ. Assistance www.moea.state.mn.us/lc/county2.cfm	Printout of county recycling contacts and solid waste administrators	Carlton, Cook, Lake, and St. Louis Counties of Minnesota
"	Minnesota Office of Environ. Assistance www.moea.state.mn.us/lc/score2.cfm	Printout of "Minnesota Recycling Data," selected searches of SCORE data by county and category	Carlton, Cook, and Lake Counties of Minnesota (St. Louis had no information)
"	Minnesota Office of Environ. Assistance www.moea.state.mn.us/lc/score98.cfm	Printout of Appendix B of <i>Report on 1998 SCORE Programs</i> , county survey responses on solid waste collection, recycling programs, etc.	Includes Carlton, Cook, Lake, and St. Louis Counties and the Western Lake Superior Sanitary District in Minnesota
"	Minnesota Office of Environ. Assistance www.moea.state.mn.us/berc/	Printout of 1997 news release from Gov. Carlson on benefits of recycling manufacturing	Minnesota statewide
"	Western Lake Superior Sanitary District Heidi Ringhofer 218-722-3336, x206 heidi.ringhofer@WLSSD.Duluth.mn.us	Printouts of files 98HHWMS.xls and 99HHWMS.xls with reports on regional household hazardous waste program (number of households, vehicles, recyclers, shoppers by county and waste summary by material	Primarily Western Lake Superior Sanitary District in parts of St. Louis and Carlton Counties, Minnesota (but including some residents of other northeastern Minnesota counties and Douglas County, Wisconsin
"	Western Lake Superior Sanitary District www.wlssd.duluth.mn.us	Printouts on environmental services (household hazardous waste, business hazardous waste, solid waste programs, and yard waste management), zero discharge, pollution prevention, and persistent toxic chemicals	Primarily Western Lake Superior Sanitary District in parts of St. Louis and Carlton Counties, Minnesota, but influences a larger region
"	Minnesota Technical Assistance Program www.mntap.umn.edu/home.htm 800-247-0015 or 612-624-1300	Printout on business pollution prevention programs	Minnesota businesses
"	Minnesota Materials Exchange www.mnexchange.org	Printout on Minnesota Materials Exchange and Great Lakes Center Salvage Materials (matching surplus materials with those who can use them)	Minnesota businesses. Northeast Minnesota Materials Exchange contact: 218-722-3336, x440, heidi.carlson@wlssd.duluth.mn.us
"	Duluth News-Tribune	Printout (posted to e-mail list by National Wildlife Federation Great Lakes Program) of 3/7/2000 Duluth News-Tribune article on City of Duluth ban on mercury thermometer sales	Duluth, Minnesota

Recycling programs (cont.)	Wisconsin Dept. of Natural Resources Bob Germer, 715-635-4060 germer@dnr.state.wi.us	Printouts on local recycling contacts by county, 1997-1999 per capita recycling rates for various materials, and material recovery facilities (MRFs)	Wisconsin statewide, listed by county, including Ashland, Bayfield, Douglas, Iron, and Vilas
"	Wisconsin Dept. of Natural Resources www.dnr.state.wi.us/org/aw/wm/contacts/recycle.htm	Printout on "Highlights of Wisconsin Recycling" and list of Wisconsin contacts for waste reduction and recycling information (business recycling, waste reduction, financial and technical assistance, recycling education, and landfills)	Wisconsin statewide
"	Northwest Regional Planning Commission Rick Schneider or Bill Welter, 715-635-2197	"Northwest Cleansweep Summary of Activities and Schedule" of household hazardous waste, agricultural waste, and very small quantity generator collections	Locations including Ashland, Bayfield, Douglas, and Iron Counties
"	Recycling Council of Ontario www.rco.on.ca/3rs	Printouts on general recycling and waste reduction statistics and trends and on "3RSOURCE ON-LINE, Ontario Municipal Programs"	Recycling contacts for Cities of Sault Ste. Marie and Thunder Bay. List of dwellings served by bluebox curbside collection.
"	Ontario Waste Diversion Organization www.wdo.on.ca	Printout on <i>WDO Guiding Principles for Development of a Long-Term Sustainable Funding Formula for Residential Materials Recycling Programs</i> . April 12, 2000	Ontario
"	Environment Canada www.cciw.ca/cgi-bin/mfs	Printout "COMPRO 9: Ontario's 3Rs Regulations"	Ontario
"	Ontario Ministry of the Environment www.ene.gov.on.ca/programs/3886e.pdf	Printouts of <i>Municipal 3Rs in Ontario: 1998 Fact Sheet</i> , October 1, 1999, and <i>In Brief. The Waste Diversion Organization - A Partnership Between Industry, Municipalities and the Province</i>	Ontario
"	EcoSuperior (formerly Thunder Bay 2002, formed by Lakehead Environmental Action Group, Thunder Bay, Ontario) www.ecosuperior.com/	Printout on Merc-Divert Superior, managed by EcoSuperior in cooperation with the Lake Superior Binational Program	Thunder Bay, Ontario
"	Clean North of Sault Ste. Marie	Mentioned by EcoSuperior	
"	American Forest & Paper Association www.afandpa.org/recycling	Printout on AF&PA recycling programs	U.S.
"	American Paperboard Packaging Environmental Council www.appec.org appec@afandpa.org	Printout on paperboard markets	☎ U.S.—Contact to see if info is available by geographic region or state (800-878-8878)
"	Canadian Pulp and Paper Association www.open.doors.cppa.ca/english/wood/guide/ontarioe.htm	Printouts on "The Paper Recycling Mills in Canada," selected for Ontario	List includes Bowater Pulp and Paper Canada, Inc. and Thunder Bay Packaging mills in Thunder Bay, Ontario
"	Ontario Forest Industries Association www.ofia.com/Sustain.enviro	Printout on the amount of paper recycling in Ontario and industrial consumption of waste paper	Ontario
Forest resources remaining in the Basin	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-48 to 6-50, 6-142 to 6-148.	Vegetation section, old growth forest, changes in forest composition, fragmentation/roadless areas, white pine	Lake Superior Basin
"	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR	Printouts on <i>The Forest Resources of Ontario: Ontario's Forest Resource Inventory and administration and tree species distribution maps and statistics</i>	Includes Lake Superior watershed but no specific information (maps do show location and relative abundance of species)
"	GeoGratis geogratis.gcdi.gc.ca	Printout on Ontario Timber Inventory	Ontario. May be useful information for free download (1:250,000 Arc Export format) but couldn't find map index to inventory codes
"	Canadian Forests www.canadian-forests.com	Printout on the "Internet gateway to forests and forestry in Canada"	Canada

Forest resources remaining in the Basin (cont.)	Canada's Forest Network www.forest.ca	Printout on Canada's Forest Network, "Guide to Canadian Forest and Forest Product Information"	
"	U.S. Forest Service roadless.fs.fed.us/states	Printout and map of National Forest lands and inventoried roadless areas in Michigan	Michigan (also available for National Forests in Minnesota and Wisconsin)
"	Great Lakes Forestry Alliance www.lfsa.org	Printout on 1995 Lake States Forestry Alliance <i>Lake States Regional Forest Resources Assessment</i>	Michigan, Minnesota, Wisconsin
"	Canadian Council of Forest Ministers nfdp.ccfm.org	Printout on National Forestry Database Program, Compendium of Canadian Forestry Statistics. Section 1. Forest Inventory. Printed and downloaded map files ("Ontario forestry" folder).	Canada and provinces (data tables). Maps of forest land, timber-productive forests, forest types, terrestrial ecozones, forest regions
"	Natural Resources Canada, Canadian Forest Service www.nrcan.gc.ca/cfs	Printouts on <i>The State of Canada's Forests 1998-1999 Innovation</i> (downloaded full report as "Canada forests 99" file in NRC-GeoConnections folder)	Canada. Includes profiles by province and by tree species within provinces (printout of white pine in Ontario as example)
"	Great Lakes Ecological Assessment http://econ.usfs.msu.edu/gla	Printout on GIS maps and data sets available. Maps of existing and historic vegetation, including forest and vegetation resource inventory plots, land type associations, etc.	Michigan, Minnesota, Wisconsin
Mining resources remaining in the Basin	Michigan Dept. of Natural Resources Land and Mineral Services Division www.dnr.state.mi.us/RED	Printout on land and mineral services, including mineral leases (oil and gas, metallic mineral, and nonmetallic mineral)	517-241-2438
"	Ontario Ministry of Northern Development and Mines, Mines and Minerals Division www.gov.on.ca/MNDM/MINES	Printout from <i>Ontario Mineral and Exploration Statistics 1999</i> . List of mines and products in Ontario (metals, nonmetals, structural materials, and fuels)	Ontario. Statistics for Sault Ste. Marie and Thunder Bay mining divisions, which include the Lake Superior Basin
"	"	Printout from <i>Ontario Mining and Exploration Directory 2000</i>	Ontario. Statistics on metal mines (4 in Basin), gemstone and mineral specimen mines and quarries (11? In Basin)
"	"	Printout on ERLIS (Earth Resources and Land Information System), including mineral exploration assessment files and mineral deposit occurrences	Ontario. Some data sets can be purchased (\$100 CD-ROM). Mineral Deposit Inventory Database started in early 1970s and since expanded.
"	"	Printout on Jacobsville Red Sandstone from Root River Sandstone Quarry near Sault Ste. Marie	Ontario.
"	"	Printouts on mineral development and mine rehabilitation, abandoned mines and hazards databases and reports	Ontario
"	The Mining Association of Canada www.mining.ca	Printout on the association's mission to promote growth and development of Canada's mining and mineral-processing industry.	Canada. Includes links to other mining information sources, Canadian, provincial, and U.S. contacts
"	Natural Resources Canada, Minerals and Metals Sector www.nrcan.gc.ca/mms	Printouts on mineral production and exploration statistics and consumption of key metals, ferroalloys, and nonmetallic minerals in Canada	Canada. Production and exploration data by province and consumption data based on annual surveys since 1940s sent to Canadian mineral producers and consumers
"	Natural Resources Canada www.NRCan.gc.ca:80/dmo/susdev	Printout on minerals and metals and sustainable development	Canada. Mentions online publications: <i>Minerals and Metals Policy of the Government of Canada</i> , <i>MEND Annual Reports</i> , <i>MEND Technical Reports</i> (on acid mine drainage)
"	Natural Resources Canada mend2000.NRCan.gc.ca/links	Printout on links to mining information (Canada, U.S., international)	
"	River Gold Mines Ltd. www.rivergoldmine.com		Ontario. Wawa
"	Ontario Ministry of the Environment www.ene.gov.on.ca/envision/techdocs		

Mining resources remaining in the Basin (cont.)	Federal Reserve Bank of Minneapolis http://minneapolisfed.org/economy	Printout on iron ore shipments from Minnesota and Michigan's Upper Peninsula, 1998-1999	Minnesota includes shipments from Duluth, Two Harbors, Silver Bay, Taconite Harbor, and Superior, Wisconsin.
"	U.S. Geological Survey http://minerals.usgs.gov/minerals/pubs	Printouts on Copper Statistics and Information and leading copper-producing mines	
Types/quantities of electric power generation (also consumption, energy efficiency, renewables)	U.S. Geological Survey http://water.usgs.gov/watuse/wudownload.html	ArcView and Excel files. Spreadsheet from USGS water-use data (# of hydroelectric, fossil fuel, geothermal, nuclear plants by watershed)	Gigawatts/year power generated by watershed (8-digit water resources cataloging unit) within basin— MI, MN, WI
"	Energy Information Administration, U.S. Dept. of Energy www.eia.doe.gov/cneaf/electricity	Printouts of <i>Inventory of Electric Utility Power Plants in the United States 1999</i> and <i>Inventory of Nonutility Electric Power Plants in the United States 1998</i>	MI-MN-WI, with generation and sales data, including per capita by utility. Statewide energy consumption estimates by source/ sector, 1960-97. U.S. residential energy consumption survey, trends 1978-1997.
"	Michigan Public Service Commission www.psc.state.mi.us .	Printout of contacts for electric industry information	Jack Mason (517-241-6172) No county data available. EIA (above) is their source. EIA can search records by ZIP code.
"	Minnesota Public Utilities Commission www.puc.state.mn.us	Printout of contents and excerpts, <i>Retail Competition Report, 1997</i>	Minnesota. Sections on energy efficiency, renewables policy, and green marketing
"	Minnesota Dept. of Public Service dpsv.state.mn.us/docs	Printout of <i>Minnesota Utilities' Energy Conservation Programs</i> (1997) and table of state/federal tax and production incentives for renewable energy	Hydropower, biomass, wind, solar, and ethanol incentives
"	Wisconsin Public Service Commission www.psc.state.wi.us .	Lists contacts for electric industry information	May not need to pursue if covered by USGS above
"	Wisconsin Energy Bureau www.doa.state.wi.us/deir/boe.htm	Printout of contents and excerpts from <i>Wisconsin Energy Statistics</i> 1999.	Statewide energy use by sector and fuel type. (608-266-8234, energy@mail.state.wi.us) SO ₂ emissions data on Bay Front plant (Ashland), 1980-98. Hydroelectric generation (1998) for Ashland and Douglas Cos.
"	RENEW Wisconsin www.renewwisconsin.org	Printout on green energy in WI and proposed third-party certification	
"	Union of Concerned Scientists www.ucsusa.org	Printout of <i>UCS Reports. Powerful Solutions for Wisconsin: Seven Ways to Switch to Renewable Electricity</i>	Discusses proactive policies in Wisconsin on energy efficiency and renewable energy, coal-fired plants as major mercury sources, Climate Change Action Plan.
"	Natural Resources Canada, Energy Sector, Renewable and Electrical Energy Div. www.nrcan.gc.ca/es	Printout, executive summary of <i>Canada's Energy Outlook 1996-2020</i>	Canada. Also information about Renewable Energy Deployment Initiative (REDI) for heating/cooling efficiency and renewables
"	Natural Resources Canada, Energy and Sustainable Development www.NRCan.gc.ca:80/dmo/susdev	Printout on Efficiency and Alternative Energy Program, Renewable Energy Strategy, Energy Efficiency Act, Level Playing Field Study, Climate Change	Canada. Voluntary Challenge Progress Report (Dec. 1996) on voluntary reductions in greenhouse gas emissions may include localities within L. Superior basin.
"	Northern States Power www.nspco.com	Printouts of service areas in MI-WI, WI hydro plants.	Info on renewables, including Bay Front plant in Ashland (wood waste)
"	Great Lakes Power www.glp.on.ca	Printout on 12 hydroelectric power plants, incl. Capacity, age, customers	NE Lake Superior watershed (connects with Ontario Hydro and SSM cogenerator)
"	Ontario Power Generation and Hydro One (formerly Ontario Hydro) www.ontariopowergeneration.com and www.HydroOne.com	Printouts on power generation and transmission customers, <i>Towards Sustainable Development: Ontario Hydro 1998 Progress Report</i> excerpts	Map of power plants (14 hydro, 1 coal) in Ontario Lake Superior basin
"	Canadian Electricity Association www.canelect.ca/ecr	Printout on Environmental Commitment and Responsibility Program	

Aquifer quality/volume	USGS water-use data (public, commercial, domestic, industrial, power, mining, livestock, irrigation, sewage treatment categories)	ArcView (spreadsheet from http://water.usgs.gov/watuse/wudownload.html)	By watershed (water resources cataloging unit) within basin— MI, MN, WI
"	Environment Canada municipal water-use data www.ec.gc.ca/water/index.htm	Excel table for water/sewer: pop. served, ave. daily flows, 4 water user classes, water source (ground, surface, combined), sewage treatment type. Database for all Canada from dave.lacelle@ec.gc.ca	Water-use data available only for municipalities w/population > 1000. Extracted data for 6 localities in watershed that meet those criteria.
"	Wisconsin Public Service Commission www.psc.state.wi.us . Contacts for water industry information		May not need to pursue if covered by USGS above
"	US Environmental Protection Agency www.epa.gov/water	printout of Safe Drinking Water Information System (SDWIS) county results	Water quality records for water supplies in 24 MI, MN, WI counties at least partly in Lake Superior basin
"	"	printout of wastewater facility inventory reports for Clean Water Needs Survey	City/county level in MI, MN, WI (population served, future population, existing flow, design flow, future design flow, treatment type)
Tourism density/stressors	Federal Reserve Bank, Ninth District minneapolisfed.org/economy/industry/	Printout on Ninth Federal Reserve District travel and tourism, with hotel/motel occupancies and rates and airport passenger volumes. Charts of tourism indicators and wildlife recreation.	Includes Lake Superior Basin (Duluth-Superior, northwestern Wisconsin, and Michigan's Upper Peninsula)
"	National Scenic Byways Organization www.byways.org/pages	Printout of Michigan Scenic Byways map and links for more information	Michigan. No "All-American Road" or "National Scenic Byway" in Michigan. State byways in the Lake Superior Basin are Black River, Copper Harbor, and Whitefish Bay.
"	"	Printout of Minnesota Scenic Byways map and links for more information	Minnesota. North Shore Scenic Drive is an "All-American Road." State byways in Lake Superior Basin are Rushing Rapids, Skyline, Gunflint, and Superior National Forest.
"	"	Printout on Wisconsin Scenic Byways with links for more information	Wisconsin. No "All-American Road" or "National Scenic Byway" within the Lake Superior Basin. No state byways in national scenic byways database.
"	Great Lakes Commission www.glc.org/circle	Printouts on Great Lakes Circle Tour	Michigan, Minnesota, and Wisconsin along Lake Superior
"	Travel Michigan	Printout of example search on "nature tourism" in Michigan'	
"	Minnesota Dept. of Trade and Economic Development, Office of Tourism www.dted.state.mn.us/04x00f.asp	Printout, statewide summary of tourism economic impact, employment, travel activities/destinations, and expenditures by type for state	Northeast Region contact: Tim Campbell 218-723-4692 or 888-876-6784 Tim.Campbell@state.mn.us
"	Minnesota Sea Grant www.d.umn.edu/seagr/areas/tourism	Partial printout of <i>Trends in Tourism Visitation – Duluth, Minnesota, 1980-1994</i> . Includes tables of total yearly visitors to and through Duluth 1982-93 and tourism spending by month 1980-93	Duluth, Minnesota. Notes that tourism can be important to local economy but good planning is needed for it to be compatible with other community elements and residents' desires.
"	Minnesota Sea Grant www.d.umn.edu/seagr/pubs	Printout of mostly free publications available from Minnesota Sea Grant, including a number on tourism and recreation	Minnesota. Examples of reports: <i>Summary Report of Treasures Under Pressure—The Future of Northeastern Minnesota Lakes: Results of the 1998 Public Workshops</i>
"	Wisconsin Dept. of Tourism tourism.state.wi.us	Printout of summary and table: "1998 Economic Impact of Traveler Expenditures on Wisconsin," plus list of Wisconsin tourism contacts, including Hurley and Superior travel centers	Ashland, Bayfield, Douglas, Iron Counties, Wisconsin (tourism expenditures, employment, local and state revenue, etc.)

Tourism density/stressors (cont.)	Ontario Ministry of Tourism www.tourism.gov.on.ca/english/research	Printout of tables from tourism <i>Historical Trends and Statistics</i> with regional data on visitors, expenditures, and economic impact	Algoma Country and North of Superior tourism regions, which include the Lake Superior Basin
"	"	Printout of excerpts from <i>Ontario's Overnight Pleasure Market - 1998 and 1979-1998</i> with regional data on overnight tourism stays	Ontario. Algoma Country and North of Superior tourism regions, which include the Lake Superior Basin
"	"	Printout of summary of <i>The Ontario Tourism Outlook 1999-2003</i>	Ontario (doesn't appear to have regional data)
"	"	Printout of contents and summary of <i>Ontario's Business Travel Market - 1996</i>	Ontario. Algoma Country and North of Superior tourism regions not among the top business tourism destinations
"	"	Printout of contacts for Ontario tourism research and industry competitiveness and tourism policy and strategy development	Ontario
"	Ontario Travel, Government of Ontario www.ontariotravel.net	Printouts on tourism in northwestern Ontario, "Venture North of Superior," and northeastern Ontario, "Roam Through Algoma Country"	Ontario. Tourist destinations in Sault Ste. Marie, Batchawana Bay, Wawa, and Thunder Bay, within the Lake Superior Basin
"	North of Superior Tourism Association www.nosta.on.ca 800-265-3951	Printouts on touring north of Superior by activity, national and provincial parks, and communities and sites	Ontario Lake Superior Basin, including links to Beardmore, Kakabeka Falls, Lake Nipigon, Manitouwadge, Marathon, Red Rock, Dorion, Pukaskwa National Park, Terrace Bay, Schreiber, and Thunder Bay
"	Tourism Thunder Bay tourism.city.thunder-bay.on.ca	Printout on visitor services in Thunder Bay, including some statistics	
"	Terrace Bay, Ontario Town.terrace-bay.on.ca	Printout of links to associations and other locations north of Lake Superior	Ontario Lake Superior Basin
Wildlife/fisheries depletion	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-93 to 6-141.	Sections on rare and declining species and other important species	Lake Superior Basin
"	Lake Superior LaMP 2000, Chapter 7, Terrestrial Wildlife, pp. 7-17 to 7-52, 7-61 to 7-74.	Sections on status and trends of terrestrial wildlife, needs, strategies, and significant accomplishments	Lake Superior Basin
"	Lake Superior LaMP 2000, Chapter 8, Aquatic Community, pp. 8-9 to 8-20.	Sections on fisheries in Lake Superior, inland lakes, tributaries, and embayments and their stresses	Lake Superior Basin
"	US Environmental Protection Agency www.epa.gov/ost/fish	Printout of fish and wildlife consumption advisories, 1998, and fact sheet	US nationwide, queries for Michigan, Minnesota, and Wisconsin
"	Royal Ontario Museum and Ontario Ministry of Natural Resources www.rom.on.ca/ontario/risk.html	Printout of "Ontario's Species at Risk" by bioregion. List of 68 species at risk in mixed forest, 20 species in boreal forest	Ontario. Lake Superior Basin occupies parts of the mixed forest and boreal forest bioregions
Landfill/incineration capacity	Michigan Dept. of Environmental Quality, Waste Mgmt. Division. Rob Schmeling (Marquette, 906-228-6568) and Seth Phillips (Lansing)	Printout of county solid waste plan contacts	Requested information for Alger, Baraga, Gogebic, Houghton, Keweenaw, Luce, Marquette, Ontonagon Counties.
"	Michigan DEQ Waste Management Div. STARONM@state.mi.us	Printout of 7/5/2000 e-mail from Matt Staron, DEQ contact for solid waste management plans	New solid waste management plans in preparation for Alger, Baraga, Keweenaw Counties
"	Eastern Upper Peninsula County Solid Waste Planning Committee and Eastern U.P. Regional Planning Commission. John Campbell 906-635-1581	Printout of excerpts from <i>Eastern U.P. Solid Waste Management Plan Draft Summary Report, January 2000</i> and fax of 1998 waste volumes by county of origin and facility	Chippewa, Luce, and Mackinac Counties, Michigan
"	Marquette County Planning Department Al Feldhauser, 906-225-8182	Printout of excerpts from the <i>Marquette County Solid Waste Plan</i> with data on solid waste generation, disposal, recycling, and hazardous waste diversion	Marquette County, Michigan

Landfill/incineration capacity (cont.)	Western Upper Peninsula Planning and Development Regional Commission Kim Stoker, 906-482-7205	Printout of excerpts from western U.P. Solid Waste Management Plans prepared by WUPPDR, with data as above	Gogebic, Houghton, and Ontonagon Counties, Michigan
"	Michigan DEQ Waste Management Div. www.deq.state.mi.us/wmd/SWP/sw_I&g_facilities.html	Printout of <i>Report of Solid Waste Landfilled in Michigan</i> , 1996-99 annual reports of total waste volume and origin by county and facility	6 landfills in Michigan Lake Superior Basin counties. Also 4 Michigan landfills outside the Basin accepting waste from within.
"	"	Printout of "Operating Solid Waste Landfills in Michigan," 03 August 1999	5 landfills listed in Michigan Lake Superior Basin counties
"	"	Printout of "Solid Waste Disposal Areas in Michigan," December 03, 1999. License numbers and contacts.	24 landfills, transfer stations, and processing facilities in Michigan Lake Superior Basin counties
"	"	Printout of "Solid Waste Program Administration Fee Report, Fiscal Year 2000"	Perpetual care fund balances for 10 landfills in Michigan Lake Superior Basin counties
"	Michigan DEQ Waste Management Div. Marquette Region 906-228-6568	Printout of Upper Peninsula licensed type II and type III landfills, transfer stations, and processing facilities. 01/28/99 revision	License numbers and contacts for 15 facilities operating in Michigan Lake Superior Basin counties plus 13 no longer operating
"	Western Lake Superior Sanitary District Heidi Ringhofer 218-722-3336, x206 heidi.ringhofer@WLSDD.Duluth.mn.us	Printout of excerpts from <i>Western Lake Superior Sanitary District Comprehensive Solid Waste Plan Update</i> , July 1999	St. Louis and Carlton Counties, MN. Provided additional solid waste contacts for Carlton, Lake, St. Louis and Cook Counties
"	Minnesota Office of Environmental Assistance 651-296-3417 www.moea.state.mn.us/lc/	Printouts from <i>Report on 1998 SCORE Programs: An Evaluation of Minnesota's Waste Generation and Recycling Rates</i> . January 2000.	General information on waste generation and recycling in Minnesota, plus summaries for Carlton, Cook, Lake, and St. Louis Counties and the Western Lake Superior Sanitary Dist.
"	"	Printouts of searches for solid waste data (annual total waste volume and origin by county and facility)	Carlton, Cook, Lake, and St. Louis Counties and the Western Lake Superior Sanitary District in Minnesota
"	" www.moea.state.mn.us/policy/	Printout of excerpts from <i>Minnesota Solid Waste Policy Report</i> , January 2000	Minnesota statewide
"	Pamela Parkinson 218-834-8394 or Al Goodman 218-834-8380	Solid waste contact	Lake County, MN
"	Tim Nelson 218-387-3000	Solid waste contact	Cook County, MN
"	Bruce Benson 218-384-9178 bruce.benson@co.carlton.mn.us	Solid waste contact. Phone message confirming closure of North Carlton County Landfill	Carlton County, Minnesota
"	Minnesota Pollution Control Agency www.pca.state.mn.us/cleanup	Minnesota Landfill Cleanup Program printouts of Duluth Region landfill locations, ownership, fill size, permit information, class	Carlton, Cook, Lake, and St. Louis Counties in Minnesota (within Lake Superior basin)
"	"	Printouts of <i>MMSW Landfill Liability Report</i> (January 1998) and <i>Closed Landfill Program Annual Report</i> , 1998 and 1999	9 closed landfills in the Lake Superior Basin of Minnesota; annual funds for closed landfills
"	Minnesota Pollution Control Agency Julie Henderson julie.henderson@pca.state.mn.us	e-mail with contact information for St. Louis County Sanitary Landfill (Terry Soderberg, 800-450-9777)	Confirmed that it is the only operating MSW landfill in the Minnesota Lake Superior Basin
"	Wisconsin Department of Natural Resources, Waste Management Program www.dnr.state.wi.us/org/aw/wm/	Printouts of waste management contacts by county, summary of Wisconsin Solid Waste Management Program, and licensed solid waste landfills in Wisconsin (through Sept. 1999)	Ashland, Bayfield, Douglas, and Iron Counties in Wisconsin. 3 licensed landfills in Wisconsin Lake Superior Basin, 1 outside Basin that accepts waste from within.
"	Wisconsin Department of Natural Resources, Park Falls Service Center Steve Ashenbrucker, Park Falls Steve LaValley, Spooner	Memo with license numbers, capacities, and waste volumes for 1991-99 for currently operating solid waste facilities, plus list of closed landfills	Ashland, Bayfield, Douglas, and Iron Counties in Wisconsin.
"	Ontario Ministry of the Environment, Waste Management Policy Branch Bruce Pope, Bruce.Pope@ene.gov.on.ca	e-mail and attachment with estimates of tons of waste generated, landfilled, and diverted	Ontario Lake Superior Basin

Landfill/incineration capacity (cont.)	Ontario Ministry of the Environment www.ene.gov.on.ca/envision/org/op.htm	List of Ministry of the Environment offices by district/region/area.	Ontario. Thunder Bay region (807-475-1205) and Sault Ste. Marie area (705-541-2170)
Degree of urban sprawl	US Census TIGER 1990 demographics www.esri.com	ArcView database. Type and duration of commute to work (drove alone, public transit, carpooled, worked at home)	540 US census block groups in Lake Superior Basin—Michigan, Minnesota, Wisconsin
"	"	ArcView database. (Population density, when mapped over time, will reflect sprawl.)	540 US census block groups in Lake Superior basin—Michigan, Minnesota, and Wisconsin
"	USA Counties 1998 (US Census)	CD ROM (same categories as TIGER type-of-commute data above, plus walked to work)	16 counties mostly in Lake Superior Basin—Michigan, Minnesota, Wisconsin
"	"	CD ROM (aggregate and average travel time of workers >16)	16 US counties mostly in Lake Superior watershed
"	"	CD ROM (urban population, rural population, 1980)	16 US counties mostly in Lake Superior watershed
"	"	CD ROM (number of farms and acreage in agriculture, 1978, 1982, 1987, 1992)	16 US counties mostly in Lake Superior watershed
"	Statistics Canada 1996 census	ArcView database (8 categories: vehicle driver, vehicle passenger, public transit, walked, bicycle, motorcycle, taxi, other)	31 Ontario census subdivisions in Lake Superior Basin
"	Wisconsin Land Information Program www.doa.state.wi.us	Printout of County and State Agency Land Information and Integration Plans	Ashland and Bayfield counties in Wisconsin Lake Superior basin (Douglas and Iron N/A)
"	WI Energy Bureau, www. Doa.state.wi.us/deir/boe.htm	Printout of contents and excerpts from <i>Wisconsin Energy Statistics</i> 1999 on annual miles driven and miles per gallon of gasoline.	Average miles driven per auto and miles per gallon, 1970-1997, in Wisconsin and U.S.
Loss of native flora	Lake Superior LaMP 2000, Chapter 6, Status of Habitat, pp. 6-142 to 6-147, Addenda 6A and B.	Sections on areas of quality, changes in forest composition, fragmentation, rare plant species and communities	Lake Superior Basin
"	Michigan Natural Features Inventory www.dnr.state.mi.us/wildlife/heritage	Printout on the Michigan Natural Features Inventory	Michigan
"	Minnesota Dept. of Natural Resources Division of Ecological Services www.dnr.state.mn.us/ecological_services	Printout on links to endangered species lists, natural community and rare species county maps, Natural Heritage Information System, plant and native plant community survey staff.	Minnesota. No natural community and rare species maps yet in Lake Superior Basin. List of biological survey botanists and plant ecologists by county, including the Basin.
"	Wisconsin Dept. of Natural Resources Bureau of Endangered Resources www.dnr.state.wi.us/org/land/er/	Printouts on endangered resources and state natural areas	Wisconsin. List of endangered resources and state natural areas by county (Ashland, Bayfield, Douglas, Iron)
"	Ontario Natural Heritage Information Centre www.mnr.gov.on.ca	Printout on the Ontario Natural Heritage Information Centre contacts and natural areas information tables	45 known rare plant and animal species in Thunder Bay region
"	Wisconsin Wetlands Association Wetlands@execpc.com	Printout of e-mail about proposed wetland fill for a new school (Bob Olsgard, 10/19/00).	Superior, Wisconsin. Seven rare species of wetland plants (2 endangered), including one found nowhere else in Wisconsin

Measures of the Awareness of the Capacity for Sustainability			
<i>Measure</i>	<i>Data Source</i>	<i>Format</i>	<i>Geographic Coverage</i>
Environmental/sustainability education in schools	National Science Foundation, National Science Board www.nsf.gov/nsb/tfe/nsb99133/	Printout from Sept. 1999 <i>Minnegram</i> newsletter from the University of Minnesota Water Resources Center on a new NSF initiative to improve environmental science and engineering for the 21 st century	US
"	Michigan Dept. of Education www.state.mi.us/mde		No links to environmental education information
"	Minnesota Office of Environmental Assistance www.moea.state.mn.us/seek	Printout on SEEK (Sharing Environmental Education Knowledge)	Minnesota (SEEK program based in Duluth)

Environmental/sustainability education in schools (cont.)	Wisconsin Dept. of Public Instruction www.dpi.state.wi.us/	Printout on environmental education standards in Wisconsin	Wisconsin
"	Wisconsin Environmental Education Board weeb.uwsp.edu/supportpages	Printout on the mission of the Wisconsin Environmental Education Board	Wisconsin statewide. Also solicits contributions to "Environmental Education Trust Fund"
"	Ontario Ministry of Education www.edu.gov.on.ca/eng/welcome.html	Printout on "science and technology" education. Search on "environmental education" produced no documents	Ontario
"	EE Link www.nceet.snre.umich.edu/	Printout of links to environmental education organizations and information by state	Michigan, Minnesota, Wisconsin
"	North American Lake Management Society www.nalms.org 608-233-2836	Printout of announcement for Local Lake and Watershed Protection Grants for Teachers for the Year 2000	Nationwide (grant program piloted in New England in 1999)
"	Great Lakes Commission www.great-lakes.net	Announcement of new environmental quality and sustainable development fellowships with the Great Lakes Commission	
"	Wolf Ridge Environmental Learning Center www.wolf-ridge.org/programs/school	Printout on school programs	Located in Lake County, Minnesota; serves schools statewide with residential environmental education programs
Promotion of resource conservation programs	Michigan Dept. of Environmental Quality www.deq.state.mi.us	Printout (table of contents): <i>Preserving Michigan's Wetlands: Options for Local Governments</i>	Michigan (statewide)
"	Michigan Dept. of Consumer and Industry Services, Office of Policy and Legislative Affairs, Energy Division www.cis.state.mi.us/opla/erd/counties	Printouts on alternative fuel refueling stations, energy-efficient five-star homes, and energy-related organizations and points of interest by county	Michigan. Alger, Chippewa, Houghton, and Ontonagon Counties (other Lake Superior Basin counties had no listings)
"	Natural Resources Canada http://alt-fuels.nrcan.gc.ca/atfsearch.cfm	Printout on alternative vehicle refueling stations in Canada	No methanol or natural gas stations listed for Ontario Lake Superior Basin. One station in Thunder Bay with ethanol (Mohawk Canada).
"	Natural Resources Canada Office of Energy Efficiency http://oe.e.nrcan.gc.ca/see/pdf	Printout of excerpts from <i>The State of Energy Efficiency in Canada</i> . October 2000	Canada. Statistics and programs on residential, commercial/industrial, passenger and freight transportation energy efficiency
"	EcoSuperior (formerly Thunder Bay 2002, formed by Lakehead Environmental Action Group, Thunder Bay, Ontario) www.ecosuperior.com	Printout on "water cycle" bike tour and links to energy conservation, waste reduction, green spaces, and information about the organization.	
"	Clean North of Sault Ste. Marie www.cleannorth.org 705-945-1573	Printout on Sault Ste. Marie citizens environmental group that promotes waste reduction, reuse and recycling	Ontario. Sault Ste. Marie and the Algoma District
"	Sault Ste. Marie Naturally Green, Ontario www.gca.ca/SAULT.htm	Printout on residential services (energy efficiency, etc.), educational materials, and projects	Ontario. Sault Ste. Marie and the Algoma District
"	Green Communities Association www.gca.ca	Printout on sustainable communities programs for energy and water savings, waste reduction, pollution prevention, and natural areas protection	Ontario. EcoSuperior and Sault Ste. Marie Naturally Green are members in Lake Superior Basin
"	Ontario Environment Network www.web.net/~oen	Printout on Ontario Environment Network's nonprofit, non-governmental referral service for environmental information	Ontario
Ecological design in building codes	Northern States Power www.nspco.com	Printout on Star Building Design Award	Mention of incentives modified to reflect changes in Wisconsin Commercial Building Code
"	Sault Ste. Marie Naturally Green, Ontario www.gca.ca/SAULT.htm Luc Seguin, ssmnaturallygreen@hotmail.com	Printout on EnerGuide for Houses, e-mail from Luc Seguin (11/4/00). Previous provincial and Environment Canada funding for a Green Home Visit program.	Sault Ste. Marie and the Algoma District. 1,500 households participated in the Green Home Visit program through 1998.

Ecological design in building codes (cont.)	Green Communities Association www.gca.ca/eghsore.html	Printout on EnerGuide for Houses, a new Canadian home energy rating system developed by Natural Resources Canada	Says that new houses built to Ontario Building Code score low-mid 70s, while very energy efficient houses score 80 or higher. Old houses may score 0-50. Contacts in Thunder Bay (807-624-2140) and Sault Ste. Marie (705-759-1704)
"	EcoSuperior, Thunder Bay www.ecosuperior.com Ellen Mortfield, Ellen@ecosuperior.com	Printout of e-mails (11/10/00) from Ellen Mortfield on EnerGuide for Houses evaluations	Ontario, Thunder Bay region
"	Natural Resources Canada, Office of Energy Efficiency oee.nrcan.gc.ca SyBlais@NRCan.gc.ca (EnerGuide) DoThibau@NRCan.gc.ca (R-2000)	Printouts on energy efficient homes: R-2000 HOME Program for new homes and EnerGuide for Houses for existing homes. 11/7/00 e-mail from Sylvain Blais, Housing Buildings and Regulations Division (EnerGuide) and Dominique Thibault, Housing Programs (R-2000)	Since start of EnerGuide program in Sept. 1998, 83 houses evaluated in Thunder Bay region, 48 in Sault Ste. Marie region, 870 in Sudbury region, 4,924 in Ontario, 19,167 in Canada. R-2000 homes since 1982 start: 72 in Thunder Bay, 12 in Sault Ste. Marie, 4,000+ in Ontario, 8,000+ in Canada
"	" http://cbip.nrcan.gc.ca/cbip.htm Andre Vanasse, Avanasse@NRCan.gc.ca	Printouts on Commercial Building Incentive Program (CBIP); 11/14/00 e-mail from Andre Vanasse	Canada
"	Canadian Home Builders Association http://r2000.chba.ca/consumers/	Printouts on R-2000 Homes. Future link to "R-2000 homes in your region" and "information for builders"	Canada
"	EnerQuality Corporation R-2000 Ontario Official Site www.r2000.org	Printout of "Find an R-2000 Builder"	No listing of R-2000 certified home builders in any Lake Superior Basin location
"	U.S. Green Building Council www.usgbc.org	Printouts on the LEED Green Building Rating System™ for commercial buildings	U.S. Rating systems also being developed for residential buildings.
Extent of zoning regimes	Central Upper Peninsula Planning and Development Commission 906-786-9234		Marquette County in Michigan Lake Superior Basin
"	Eastern Upper Peninsula Regional Planning and Development Commission 906-635-1581		Alger, Chippewa, Luce Counties in Michigan Lake Superior Basin
"	Western Upper Peninsula Planning and Development Regional Commission 906-482-7205		Baraga, Gogebic, Houghton, Keweenaw, and Ontonagon Counties in Michigan Lake Superior Basin
"	Northwest Regional Planning Commission www.nwrdc.org , 715-635-2197		Wisconsin Lake Superior Basin counties
"	Arrowhead Regional Development Commission www.ardc.org , 218-722-5542		Minnesota Lake Superior Basin counties
Popular support for environmental regulations	Great Lakes Commission www.great-lakes.net	Printout of GLIN-Announce 1/12/2000 e-mail about the Provinces of Ontario and Quebec joining the Great Lakes Commission	
Community outreach by natural resource agencies	Michigan Dept. of Environmental Quality Environmental Assistance Division Education and Outreach Section www.deq.state.mi.us/ead/eosect	Printout on Education and Outreach Section services: clean air assistance for small businesses, community/site redevelopment assistance, exhibits for trade shows and conferences, speakers bureau, customized workshops, information hotline, publications, and staff contacts	Michigan statewide. Also printout from DEQ Financial and Business Services Division on planning targets for FY 2000, including outreach and assistance goals
"	Michigan Dept. of Consumer & Industry Services, Energy Division www.cis.state.mi.us	Printouts on energy efficiency outreach programs, such as Clean Cities, School and Local Government Energy Initiatives	Michigan. In 1998-99, there were 9 school participants in the Lake Superior Basin, but no local government participants.
"	Minnesota Pollution Control Agency www.pca.state.mn.us/cleanup	Printout on public involvement with MPCA cleanup programs	
"	Western Lake Superior Sanitary District www.wlssd.duluth.mn.us/	Mercury Elimination Project (outreach to wastewater treatment plant operators)	Minnesota. Duluth region

Community outreach by natural resource agencies (cont.)	"	Printout on WLSSD pollution prevention outreach efforts, including zero discharge, mercury and dioxin pollution prevention	
"	Ontario Ministry of Natural Resources Great Lakes Heritage Coast Project www.mnr.gov.on/MNR/glhc	Printout of January 2000 request for input on the Ontario Great Lakes Heritage Coast Project	
"	Lake Superior Binational Program	The Great Lake Superior Cleanup. Summer 1995 Final Report.	Lists 59 organizations and communities that participated in the shoreline cleanup project.
Media coverage of sustainability issues			

Measures of Economic Vitality

Measure	Data Source	Format	Geographic Coverage
Per capita income	US Census TIGER 1990 demographics	ArcView	540 US census block groups in Lake Superior basin—MI, MN, WI
"	Statistics Canada 1996 census	ArcView, from Beyond 20/20. Average and median income for pop. > 15 years old	31 Canadian census subdivisions in Lake Superior basin—ON
Cost of living	Bureau of Labor Statistics, Midwest Region, Chicago 312-353-1880 http://stats.bls.gov/ro5econ1.htm	Tables printed from Internet with consumer price index, 1999, and change from 1998 for the Midwest Region. Also "Upper Peninsula, Michigan, Occupational Compensation Survey, Pay and Benefits, September 1995"	Figures for Midwest region (MN, WI, MI, IL, IN, OH), US city ave., Midwest city size class (> 1.5 million, 50,000-1.5 million, <50,000. No finer detail available from BLS. Not likely from states either.
"	USA Counties CD (US Census)	CD-ROM converted to Excel, saved in dBASE, added to ArcView (median mortgage and rent costs divided by household income, 1980, 1990)	16 counties mostly in Lake Superior watershed
Extent of poverty	US Census TIGER 1990 demographics	ArcView (children in poverty; persons in poverty)	540 US census block groups in Lake Superior basin—MI, MN, WI
"	Statistics Canada 1996 census	ArcView, from Beyond 20/20 (low-income families and unattached persons, # and %)	31 Canadian census subdivisions in Lake Superior basin—ON
"	USA Counties CD (US Census)	CD-ROM converted to Excel, saved in dBASE, added to ArcView (number/percent of persons below poverty, 1979, 1989, 1993; number age 65+)	16 counties mostly in Lake Superior watershed
Local employment trends	US Census TIGER 1990 demographics	ArcView (employed, unemployed, not in workforce,)	540 US census block groups in Lake Superior basin—MI, MN, WI
"	Statistics Canada 1996 census	ArcView, from Beyond 20/20 (employment, unemployment)	31 Canadian census subdivisions in Lake Superior basin—ON
"	USA Counties 1998 (US Census)	CD ROM (civilian labor force, unemployment rate, 1990 and 1996, Bureau of Labor Stats.)	16 counties mostly in Lake Superior watershed
"	Bureau of Labor Statistics, Midwest Region, Chicago 312-353-1880 http://stats.bls.gov/ro5econ1.htm	Table printed from Internet with seasonally adjusted unemployment rates, 1999, and change from 1998	Figures for Midwest region (MN, WI, MI, IL, IN, OH), US, MI, WI, MN, and Duluth-Superior Metropolitan Statistical Area
Regional trade balance	Minnesota Dept. of Trade and Economic Development, Office of Freight, Railroads and Waterways	Chart with 1996 and 1987-96 average tonnage shipped from Minnesota ports on Lake Superior	Duluth-Superior (both US-CA and international shipments), Two Harbors, Silver Bay, Taconite Harbor, MN.
"	Federal Reserve Bank of Minneapolis http://minneapolisfed.org		Includes all 24 Michigan, Minnesota, and Wisconsin counties at least partly in the Lake Superior Basin

Regional trade balance (cont.)	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR/forests	Printout on Ontario's forest industry and trade balance	1996 forest products exports, primarily to U.S., is estimated at \$7.3 billion (softwood lumber, wood pulp, and newsprint are main products)
"	Ontario Ministry of Northern Development and Mines, Trade and Investment Marketing www.gov.on.ca/MNDM/nordev/redu	Printout on Trade and Investment Marketing Branch. Also report, <i>Investing in Ontario: Some Northern Perspectives</i> (under transitional economies)	
"	Canadian Environment Industry Association www.ceia-acie.ca/english/links	Printout of descriptions of government business help links for environmental businesses, particularly for exports. Site includes database of Canadian environmental companies and organizations	Canada
Diversity of economies	US Census TIGER 1990 demographics	ArcView (8 industry of employment categories; 4 occupation categories; 4 employment sector categories)	540 US census block groups in Lake Superior basin—MI, MN, WI
"	US Bureau of Economic Analysis www.bea.doc.gov/bea/regional/bearfacts	Printout of "Bearfacts for 1987-97" on county per capita personal income and earnings by industry. Also "Regional Accounts Data" with more detailed economic data for 1993-97 by county	Michigan, Minnesota, and Wisconsin Lake Superior Basin counties
"	Statistics Canada 1996 census	ArcView, from Beyond 20/20 (employment by 18 industry sectors; occupations by 10 categories)	31 Canadian census subdivisions in Lake Superior basin—ON
"	Natural Resources Canada www.NRCan.gc.ca:80/dmo/susdev	Printout of Canada's Forests map, which shows forestry-dependent communities	At least 8 communities more than 50% dependent on forestry are in Basin
"	SitesOntario www.SitesOntario.com	Printouts of community profiles with population, employment, transportation, utility, medical services, major manufacturers, and education	Ontario: Thunder Bay and Sault Ste. Marie
"	Federal Reserve Bank of Minneapolis http://minneapolisfed.org	Printouts on Ninth District economy and county population database, 1850-1995, with notations (e.g., persistent poverty, government-dependent, federal lands)	Includes all 24 Michigan, Minnesota, and Wisconsin counties at least partly in the Lake Superior Basin
Transitional economies	Michigan Economic Development Corporation http://medc.michigan.org/	Printouts on Michigan Technical Education Centers, Tax-Free Renaissance Zones, and high-tech SmartZones for economic development. Also final report on a Michigan Economic Diversification Study by the Anderson Economic Group	Michigan. No M-TEC centers in Lake Superior Basin; closest is in Escanaba. Two Renaissance Zones in the Basin, one in Marquette County, the other with sites in Gogebic, Ontonagon, and Houghton Counties. One SmartZone proposal is from Houghton-Hancock, within the Basin.
"	Arrowhead Regional Development Commission www.ardc.org	Printouts on regional planning projects in northeastern Minnesota: Arrowhead Scenic Byways Marketing Plan, Scenic 61 Historical and Interpretive Plan, Northeast Minnesota Bikeways Plan, and Scenic Routes of the Arrowhead	Minnesota Lake Superior Basin
"	US Dept. of Energy, Office of Industrial Technologies, State Economic Development Programs www.oit.doe.gov/toolbook	Printouts on financial and technical assistance programs and contacts for manufacturers: Development Zones, Enterprise Development Zones, Industrial Revenue Bonds, Major Economic Development Program, Rural Economic Development, Northwest Wisconsin Business Development Fund, Rural Development Loan Funds, Renewable Energy Assistance, Business Development Bonds, Wisconsin Business Development Loans, and other programs under the Wisconsin Dept. of Commerce	Wisconsin. Development Zone in Iron County. Northwest Business Development Corporation serves primarily timber/wood, manufacturing, and tourism industries in Ashland, Bayfield, Douglas, and Iron Counties within the Basin. Small Business Development Centers technical assistance at University of Wisconsin-Superior and University of Wisconsin-Extension. Most other programs available statewide.
"	Ontario Ministry of Economic Development & Trade	Printout on small business enterprise centres and small business self-help offices	Ontario. Small Business Enterprise Centre in Sault Ste. Marie and Small Business Self Help Office in Thunder Bay and area

Transitional economies (cont.)	Ontario Ministry of Natural Resources	Printout on the Great Lakes Heritage Coast Project, combining resource protection, job creation, and marketing	Ontario, part of Heritage Coast is along Lake Superior
"	Ontario Ministry of Northern Development and Mines, Regional Economic Development Branch www.gov.on.ca/MNDM/nordev/redv	Printout of "Investing in Ontario: Some Northern Perspectives" (Also saved on CD-R as Superior Basin Graphics/ON MND&M/northern perspectives.pdf) Printout on the role of area teams and assistance to the following economic sectors: natural resources, tourism, agriculture and rural development, mining, business and industry, and aboriginal economic development	Ontario northern regions
Value-added industry	Minnesota Office of Environmental Assistance www.moea.state.mn.us/publications Colleen Schoenecker 651-215-0256	Printout and copy of <i>Minnesota Value-Added Recycling Manufacturing Industries: An Economic and Environmental Profile</i>	Minnesota. Requested list of value-added businesses by community in the Lake Superior Basin counties. Apparently not available.
"	Minnesota Recycled Products Directory www.moea.state.mn.us/rpdir	Printout of search page from Minnesota Recycled Products Directory	Minnesota
"	Ontario Ministry of Natural Resources www.mnr.gov.on.ca/MNR/forestproductsdoc	Printouts on value-added forest products and services. Maps and contact lists for major sawmills and pulp & paper, panel, and veneer mills in Ontario	Ontario. Mills in the Lake Superior Basin in Red Rock, Terrace Bay, Marathon, Wawa, Thunder Bay, Sault Ste. Marie, White River, Dubreuilville, and Nipigon
"	Certified Forest Products Council (see Sustainable Forestry folder)	Printouts: mission, services, types of certification; list of business members by state and their products (value-added)	Michigan, Minnesota, Wisconsin, Ontario
Regional and local tax bases	USA Counties 1998 (US Census)	CD-ROM (property taxes as percent of total revenue; intergovernmental revenue; revenue per capita; expenditures per capita)	16 counties mostly in Lake Superior watershed
"	Michigan Dept. of Transportation Bureau of Planning www.mdot.state.mi.us/planning	Printout on Michigan Transportation Fund and supplemental snow removal revenues to local units of government from <i>Michigan Transportation Facts & Figures</i> (December 1999)	
"	Minnesota Planning www.mnplan.state.mn.us/reports/cashflow	Printout on "Minnesota's Fiscal Geography," maps of revenue and spending patterns. Links to revenue sources and spending by category	Minnesota. For every tax dollar collected by the State of Minnesota, \$0.70 is returned to Cook, \$1.29 to St. Louis, \$1.45 to Carlton, and \$1.64 to Lake County.
"	Minnesota Dept. of Revenue www.taxes.state.mn.us	Printout of part of <i>Minnesota Tax Handbook: A Profile of State and Local Taxes in Minnesota 1998</i>	Minnesota
"	Wisconsin Housing and Economic Development Authority www.wheda.com/programs/	Printout on Affordable Housing Tax Credits project by county list	Wisconsin, by county (Ashland printed as example)
"	Wisconsin Dept. of Health & Family Services www.dhfs.state.wi.us (see "Demands for Social Services" folder)	Printout of Public Health Profiles, including local taxes (total and per capita) for public health funding	Wisconsin; printout of public health profile for Ashland County as example of the data available

Other Data (Not Included in Developing Sustainability Committee Measures)

Type of Information	Data Source	Format	Geographic Coverage
Leaking Underground Storage Tanks (related to Reinvestment of Natural Capital indicator)	Minnesota Pollution Control Agency http://blue.pca.state.mn.us/cgi-bi...	Searchable/printable list of LUST sites and cleanup status	Carlton, Cook, Lake, St. Louis Counties in MN

Educational attainment (related to Quality of Life indicator)	US Census TIGER 1990 demographics	ArcView (no HS diploma, HS grad, attended college, college grad, attended grad school)	540 US census block groups in Lake Superior basin—MI, MN, WI
"	USA Counties 1998 (US Census)	CD-ROM (percent persons 25+ HS grads; percent persons 25+ college grads)	16 counties mostly in Lake Superior watershed
"	Statistics Canada 1996 census	ArcView, from Beyond 20/20 (pop. 15 years + by highest level of school: < 9 th grade, HS w/o diploma, HS grad, trades certificate, other non-university degree, university w/o degree, university degree)	31 Ontario census subdivisions in Lake Superior Basin
Agricultural Lands	National Agricultural Statistics Service US Dept. of Agriculture www.nass.usda.gov/census/census97	Printout of 1997 Census of Agriculture Michigan State-Level Data (with some maps showing values by county)	
"	Michigan Agricultural Statistics Service Michigan Dept. of Agriculture www.mda.state.mi.us/mass/county96	Printout of agricultural statistics for Michigan by county (acres by use, population, labor force; farm income, expenses, size, crops, livestock, etc.)	Michigan. Example of statistics for Alger County (available for all Lake Superior Basin counties)
Attitudes Toward Protected Areas (related to Quality of Life, Resource Consumption, and Awareness of the Capacity for Sustainability indicators)	Northern Michigan University Lake Superior Ecosystem Homepage S . E . M . I . N . A . L . (Superior Ecosystem Management, Information, Nature, and Linkage) www.nmu.edu/sbp	Printouts on survey of "Attitudes and Values in the Lake Superior Basin," with questions about protected areas in the Basin. Includes directory with links to protected areas in Michigan, Minnesota, and Wisconsin	Lake Superior Basin. Survey results reported overall, by US and Canada portions of the Basin, and by the 11 US and 5 Canadian communities whose residents were surveyed
Motor fuel consumption	Federal Highway Administration, U.S. Department of Transportation, Bureau of Transportation Statistics	<i>Telephone Contacts for Users of Federal Transportation Statistics 1998</i>	Ralph Erickson, fuel specialist, 202-366-9235, ralph.erickson@fhwa.dot.gov ; not aware of motor fuel consumption data at detail below state.
"	Michigan Dept. of Treasury www.treas.state.mi.us/revedata	Printout of contents of <i>Michigan's Motor Fuel and Registration Taxes 1998</i> . October 1999	Michigan statewide. Contacted; no data by county or other units available
"	Wisconsin Dept. of Revenue		Contacted; no data available
"	Minnesota Dept of Revenue		Contacted; no data available